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(54) LASER MEDICAL TREATMENT DEVICE

(57) Abstract:

PURPOSE: To prevent the danger due to erroneous irradiation without needing to hold a probe at a treating person for a long time by making an optical lens to focus a laser light from a semiconductor laser, a touch sensor and a suction cup in which a surface to contact with a organism becomes concave- shaped and a groove for a cream bank is prepared at the outer circumference into a main component.

CONSTITUTION: A suction cup 4 is composed of a comparatively soft elastic material, a recessed part 6 is provided at the surface to contact with an organism 12, and by pressing the suction cup 4 to the organism 12, a vacuum condition is obtained and adsorption is executed. A groove 5 is provided at the outer circumferential part of the surface to contact with the organism 12 of the suction cup 4, and by applying a cream, etc., with the high viscosity to the groove 5, the invasion of the air from the external part is prevented. A semiconductor laser 7 and a lens 8 to focus the laser light are incorporated through a base stand 9 to the recessed part 6 of the suction cup 4. A touch sensor 10 to stop a laser light 11 when a cable 2, etc., are strongly pulled out during the laser irradiation and a probe 3 slips off from the organism 12 is incorporated into the recessed part 6 of the suction cup 4.

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